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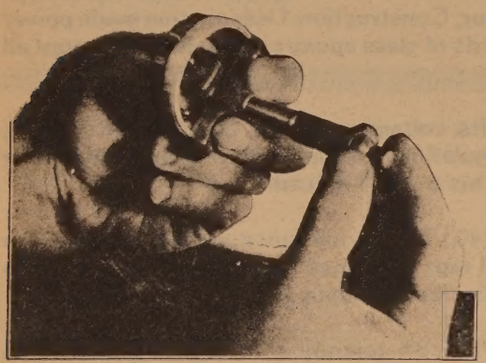
THE HORN SPEAKER

Radio Receivers In the Making

Left: These Machines Wind a Complete Bobbin in Less Time Than It Takes to Tell It; 3,500 Turns of Wire Per Minute Are Put in Place. A Special Counting Device Tells the Operator When the Proper Number of Turns Are Placed. Right: This Expert Mechanic Is Grinding the Pole Faces of the Magnets. Great Care Must Be Taken as the Removal of a Hairs-Breadth of Metal Too Much, Seriously Affects the Receiver's Operation.

By D. H. MOSS

THE radio headset is the most vital part of radio, since it is by the use of this instrument that we are able to convert weak electrical signals into audible sounds. The amount of current transformed into audible sounds depends entirely upon the scientific construction of the headset. That a sensitive receiver requires only .00000000016 ampere to give an audible signal is indeed a convincing argument for its high sensitivity. This trifling whiff of energy is barely measurable and this fact should at once impress us with the importance of purchasing headsets that will make the most of the weak currents that we feed into them from our radio receiving set. Trying to obtain maximum efficiency from our radios without the use of accurately constructed headsets is like trying to carry water in a leaky pail.



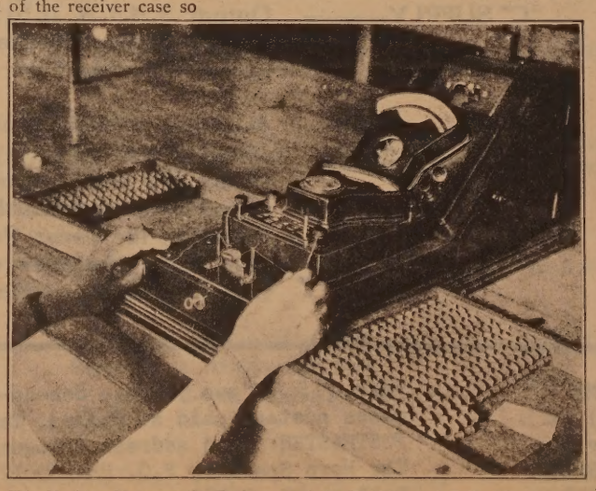
Here We See How the Depth Micrometer Is Used in Measuring Up the Distance of the Pole Faces from the Edge of the Receiver Case.

A highly sensitive receiver must be a product of the most skilled workmanship. A good receiver is more than a mere assemblage of case, magnets, bobbins, diaphragm and cap. The acoustic, as well as the electrical principles, of a receiver are such as to present problems that require the utmost painstaking care in design and engineering. The slightest deviation in design in a radio receiver can make a great change in its sensitivity. It is only constant experimentation and years of experience in manufacture that allows a producer of phones to place in the hands of the public a thoroughly reliable and efficient instrument.

The first operation in the construction of a radio headset is the cutting and forming of the receiver case. This is done on a huge punch press, which not only cuts the metal but forms it in cup shape. The metal used is ⅛" thick. Aluminum is one of the most desirable metals for this purpose, since it is both light and strong. After the receiver cup is produced, it is placed in another heavy press and the top edge is pinched up or "swedged." It is this operation that produces a shoulder for the threads that engage with the cap. This cutting of threads takes place on a large screw machine and what is known as a geometric die head does the actual cutting. A geometric die head is a threaded cutting tool which stops automatically after it has traveled a certain distance. After the threads are cut a tool comes forward and cuts off the end of the receiver case so that the diaphragm will be locked tightly in place and will lie perfectly parallel to the pole faces.

The threads on both the receiver caps and cases must be accurately cut and for this reason costly sets of master gauges are used to constantly check the thread cutting tools.

The construction of the bobbins is a most important and interesting operation in the production of headsets. The bobbin cores must not only be made of the most carefully selected and special steel, but they must all be of exactly the same size. Therefore, the first operation is that of placing the core in what is known as a "go-and-not-go" gauge. The cores that do not "go" are rejected. They must be within the accuracy of .002 of an inch to pass inspection. Each bobbin has two bobbin heads. These bobbin heads are slipped in place next, one at a time. The first one is slipped on by a special machine and the bottom is then passed on to a second machine where the second head is placed on. In this operation both the bobbin heads are securely fixed in place. The operation is a semi-automatic one, the bobbin heads being placed on a rotating disc. They are fed in at the front of the machine and are automatically discharged at the back. In this operation the bobbin heads are simply slipped in place and the metal is punched in such a way as to hold them there.



This Machine Measures the Resistance of the Bobbins and Tells Whether or Not the Winding is Grounded. The Resistance is Read Directly Off the Scale. It is the only Machine of its Kind.

Insulation is another important feature in successful receiver manufacture, and so it is necessary to place a very special grade of insulating tape over the bare steel core of the bobbins before they are passed along to the winding machines. An automatic bobbin winding machine has indeed a busy time of it. The wire placed on the bobbins is almost as fine as a human hair, and yet these little machines with their individual electric motors swell the bobbin up with wire at the rate of many thousands of turns per minute. When the proper amount of wire has been placed upon the bobbin, the machine automatically stops. In the meantime the girl operating the machine has prepared a second bobbin and the winding on this is immediately started. In this way these little machines are kept constantly busy winding many hundred thousands of feet of wire in a single day. Those who have attempted to handle No. 40 wire, which is the size used, will at once understand what a wonderful combination of delicacy and efficiency the winding machine represents.

The manufacturer of telephone receivers must be constantly on the alert for grounds or short circuits. The least electrical defect is apt to cause a partial ground or leakage which will completely destroy the sensitivity of the receiver. Immediately after the bobbins are wound they are tested on a high voltage D.C. circuit to make sure that the winding is in no way grounded. A sensitive indicating instrument is connected in the circuit and the action of its needle immediately gives the operator a warning.

After the ground test, a very careful resistance test is made, since it is necessary that the resistance of all bobbins be practically uniform. To measure the resistance of each one of these bobbins on a regular Wheatstone bridge would be a tedious task, which would interfere greatly with the progress of manufacture owing to the slowness of this method. Therefore, a direct reading ohmmeter fully as efficient for the purpose is used. Like a measuring gauge, this ohmmeter is operated on the "go-and-not-go" principle. Two limit marks are placed on its scale and the indicating needle must fall between these. If it does not, the resistance of the bobbin is either too high or too low and it must be relegated to the scrap heap. Variation in resistance must not amount to over 5 per cent plus or minus. This is only another instance where the phone manufacturer must strive for uniformity in production.

The next operation of importance is that of soldering on the lead in wires. If the tiny wires used on the magnets were used to make the connections, they would be sure to break in time and render the receiver useless. To overcome this probability, a heavy wire is used to make the connections.

The finished bobbins are placed in trays where they are allowed to remain for one month without being disturbed. This ageing process allows the moisture to dissipate thoroughly.

Eternal vigilance is the watchword of the scientific phone manufacturer. At the end of the ageing process, the lead-in wires are clipped and skinned and the bobbins are again given a "ground" and an "open" test. This is to check up any changes that may have taken place during the ageing. Of course, in these tests only the perfect bobbins are acceptable. Every bobbin that shows the faintest trace of a ground is rejected.

Rapid assembly is the problem of every manufacturer, and now that all the parts that go to make up the receiver have been described, it is interesting to know how quickly they are placed in the proper relationship to each other within the receiver case. This is done with a special fixture. First the empty cup is placed in this fixture. The bushings for the terminals and the terminal screws are automatically set in place. Then the bobbins are put in their positions and the pole faces automatically aligned. A few turns of the handle bolts the bobbins tightly in place and the receiver is passed along to where the magnets are placed and locked in position. The lead wires are then soldered to the terminals and the receiver is practically finished—finished at least as far as assembly is concerned; they then await only those finishing touches that cure them of any ills they may have before they receive the final stamp of approval.

The early life of a telephone receiver is full of tests. After the assembling operations are completed, each receiver again rceives a ground and open test as well as a careful visual inspection.

The distance separating the pole faces and the diaphragm of a good receiver must be carefully adjusted to the proper degree. In fact it is upon this very point that the efficiency of a telephone receiver largely rests. Theoretically the closer the diaphragm is to the pole faces of the bobbin magnets the more sensitive the receiver will be. On the other hand the diaphragm must be free to move and if it is placed too close it will strike the pole faces and clear reception will be impossible. That is the effect we get when a receiver is overloaded.

The distance between these members is adjusted with a grinding process. The receiver case is passed over a rapidly moving grinding wheel in such a way that only the pole faces come in contact with it. The contact is light and only a very small amount of metal is removed. The operator then measures with a micrometer depth gauge the distance that the pole faces are below the edge of the case. This process is repeated until the correct distance is found. A variation of more than one-half of one one-thousandth of an inch is not allowed to pass.

Now the tops of the pole faces are lacquered and the interior of the receivers are carefully cleaned out with previously dried air, which effectively removes any remaining traces of metal dust and dirt.

The magnetizing of the receiver magnets is done in the twinkling of an eye. The receivers are simply placed on a moving belt which passes rapidly over the pole pieces of a powerful magnet. So powerful is this magnet that a fraction of a second's exposure to its field is sufficient to bring the magnets of the receiver to a point of saturation.

A bent or deformed diaphragm would seriously impair the sensitivity and reproduction of a phone, and for this reason great caution must be taken to see that only perfect diaphragms are used This makes it necessary to give each diaphragm a careful test for flatness, before it is put in place. The diaphragm is a vital part of a receiver, since it is this which vibrates and actually creates the sound under the influence of the magnetic field.

After the caps are screwed in place the receivers are given an audibility test and after this, their tone is matched. The matching of the tone is done by an experienced operator whose duty it is to select and pair receivers that have exactly the same acoustic properties. In other words he mates them, placing together only those that produce exactly the same sound when tested with a very faint note of uniform frequency. Although the receivers are made under exactly the same conditions, and all of their parts are of exactly the same size, yet each receiver has acoustic properties of its own, which, although they vary within narrow limits, make it necessary to bring together two receivers having approximately the same characteristics. This insures maximum sensitivity and clarity of tone permitting the clear and distinct reception of extremely weak signals. It is only through matching the tone that a listener is able to hear the same sound in both ears.

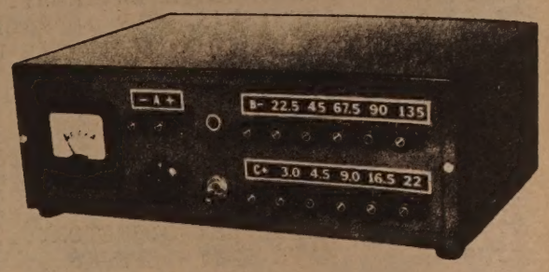
Photos courtesy C. Brandes, Inc., N. Y.

Radio News for April, 1923

REGULATED D. C. POWER SUPPLIES HIGH PERFORMANCE/LOW COST

RADIO COLLECTORS,

The RCS-728 Power Supply is designed for the radio collector who wishes to power-up the battery-operated radios of the 1920's, without using costly batteries or hum producing early type battery eliminators.
Since 1971 the RCS-728 has been the collector's choice. Check the specifications below and order with satisfaction guaranteed.



RCS-728 POWER SUPPLY

SPECIFICATIONS

GENERAL---------- Input: 117 VAC, 60 CPS, 75 Watts maximum, fuse protected. Dimensions: 12"W x 8"D x 4½"H. Weight: 6 lbs. Color: Brown hammertone. Semiconductor complement: 11 Diodes, 5 Zeners, 1 Transistor; 2 I.C. Regulators. Meter: 0-8 VDC, 2¼". Output connections: Fourteen Five-Way binding post. Controls: On-Off switch, "A" supply voltage adjustment and Neon lite power on indicator. Construction: Uses custom made power transformer and two P.C. boards of glass epoxy composition to mount all parts.

"A" SUPPLY---------- Adjustable output, .3 to 7.0 volts, voltage regulated, 2.25 amps maximum, automatic current limiting. Regulation: 1.5% maximum change, no load to full load. Ripple: Less than 15 mv p-p at full load.

"B" SUPPLY---------- Output: 22.5, 45, 67.5, 90; 135-140 VDC, 5% tolerance, voltage regulated up to .04 amps maximum load all taps combined. Regulation: 5% maximum change, no load to full load. Ripple: Less than 15 mv at full load.

"C" SUPPLY---------- Output: 3, 4.5, 9, 16.5, 22.5 VDC, 3% tolerance, voltage regulated, .015 amps maximum. Regulation: 4% maximum change, no load to full load. Ripple: Less than 7 mv.

TERMS---------- Available completely assembled or in an easy to assemble kit form complete with all parts including a punched cabinet. Price assembled is 137.50 PPd. and is guaranteed for a period of one year from defects in material and workmanship. Guarantee does not cover misuse or damage caused by the owner. Price of the Kit is $108.50 PPd., with no guarantee other than replacement of defective parts at time of assembly. Order from: Gary B. Schneider, 6848 Commonwealth Blvd., Parma Hgts., Ohio 44130.

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THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

BACK ISSUES

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75 cents each

NOTE TO READERS .. These cards are displayed for their design interest. They are not paid advertising. Some of the names, possibly, might be out of the hobby altogether. If you have an interesting calling card and it is not too difficult to print, we can display it, here.

COLLECTOR OF ANTIQUE RADIOS

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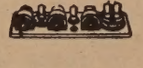

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Mailbox

Dear Jim,

Thanks for the 1972 back issues. I hope that you might devote a few words sometime about the orgin of your publication. I think it might be interesting to some of the more recent subscribers like myself. Would there be any possibility of offering copies of pre-1972 issues for sale someday?

I enjoy THE HORN SPEAKER very much. So, please find a check for $15.50 for another year's subscription on your first class mailing list.

Sincerely,
Ben Boswell
4911 Shoal Creek
Blvd.
Austin, Texas
78756

Editor's note... Thank you for your interest. January 1972 is the first issue of THS about radio collecting. The previous numbers, 1 to 29, were applied to tabloid size advertising papers for grocery and other retail stores. The first issue of the radio collecting newspaper was called THE ANTIQUE RADIO, numbered 30 with some thought about turning it into a regulated publication. The response to the first issue was good to set its course to help the collector on a regular time schedule and within a few months it was named THE HORN SPEAKER.

Jim:

...That is a real interesting article about Mr. Victoreen in the April issue. I guess he is still in good health? I really like the set on the May issue you just sent. The paper you print is a real joy to receive and a must for collectors....

Thanks again,
John Case

Worthington, Ohio

Editor's note...As far as I know Mr. Victoreen is still in good health. Thank you for the kind words.

Horn Speaker,

I have seen a few column or tall thin clock radios of the early 30's-- one in a local antique shop for $90.00, which quickly became $70.00. It was a 1931 Westinghouse 9 tube super het with radio dial and controls in right side and a speaker pointing up.

I have seen another with moulded plywood set that had rather neat smooth lines-- but was badly delaminated from dampness-- controls were on front.

These are not in FLICK OF THE SWITCH or the other McMahon book but his price listing has "column" radios listed.

These were anew style radio to me. You think you are an expert and low and behold there is much to learn still.

Emmet M. Catly

Dear Jim,

Would you please publish this in Letters To the Editor? I need help.

I have just acquired a 1925 Thorola Isodyne "50 or 55" table model and have to know the batteries required and the hook-up.

The set has 5 tubes. Some 200A and some 300A. Made by Reichmann Company of Chicago in 1925.

Would appreciate anyone sending me details on setting the battery hook-up.

Thanks,
George Friedrich
7162 Jacqueline
Lake Lane
Custer, Wisconsin
54423

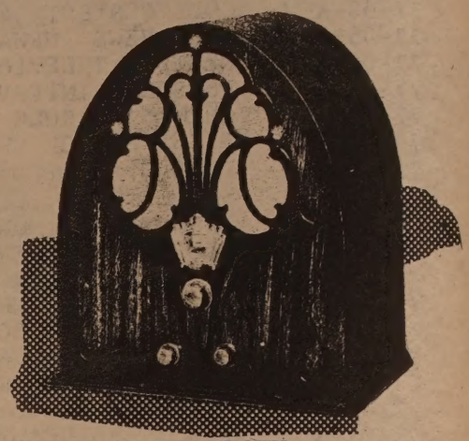
Dear Editor:

The time has come for true collectors of antique radios to speak out against the "get rich quick" tactics of a few who enter the supply market recently. a collector from the ..... area advertised several quality pieces for sale to the "highest offer." In submitting a reasonable offer, it was quite evident that he had some inexperienced speculators on the hook and that he was going to get rich at their expense.

While I am a firm believer in a reasonable profit for anyone, the whole basis for our hobby is the preservation of this special area of history. Serious collectors, such as I, are having greater and greater difficultyfinding equipment at prices which our appraisers and insurance company will swallow. Every time some sucker buys a radio at a ridiculous price, the trend is set. Soon, only the get rich speculators have access to the market and the legitimate collector is barred from the market place.

It is a shame that THE HORN SPEAKER'S classified pages, a place we all could trust for selling and trading in the best interest of our hobby, has become victim to this type of prostitution of a rewarding legitimate hobby.

Sincerely,
John G. DeMajo
The DeMajo
Communications
Museum
5912 Saint
Bernard Avenue
New Orleans,
Louisiana



GRILL CLOTH

Grill cloth can be discouraging when restoring a cabinet, especially when one hole ruins an otherwise perfect piece. When I remove a grill cloth from a radio, I save the pieces no matter how small they may be, especially if I'm dealing with a common brand such as Philco or RCA. Often, the speaker opening in a radio cabinet is actually composed of many smaller openings separated by narrow pieces of wood. A good example would be a Philco 90 which has 5 openings.

A tear or hole in the cloth may affect a few of these openings and a repair job could involve changing only the cloth in the affected openings.

If you reglue the cloth to the inside of the cabinet and do so even at the narrow sections of wood, you can now cut out the damaged section of cloth and not affect the good parts. Then you can use some cloth from your remnant supply to fill in the opening.

Sometimes there is enough cloth overlapping the edge of the hole inside the cabinet so you can get a large enough piece for a patch. Often, however, the exposed cloth has become discolored, so the color match is not right. Anyway, good luck.

By Ron Boucher
376 Cilley road
Manchester, NH 03103

The Editorial Group, Ltd...

D. H. MOORE, A.D.I.
DIRECTOR

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PALO ALTO, CALIF.
94302

MAIL AUCTION !

RADIO SETS & UNITS:

American Bosch Model 5; American Bosch Model 66 "Cruiser".
A-K Model 33; A-K Model 55-C; A-K Pooley Cabinet; A-K All-Metal Model.
Bremer-Tully "Counterphase" Constructed From Kit & Modified.
Browning-Drake 1926 Model.
Chieftan Five, Sloping Front Cabinet.
Crosley Model 50.
Custom-Built TRFs & Regenerative Receivers (5) Twenties.
Day-Fan Five, 1926.
Electrola Model 760, With Phonograph. (*)
Echophone Commercial EC-2.
Fada 3-Dial TRF, 1923 Model.
Freed-Eisemann Model NR-5; Freed-Eisemann Model NR-80 (2).
Freshman "Masterpiece" With Built-In Speaker.
Gilfillan Model 40 Elabourate Table Model.
Grebe "Synchrophase" Chassis, Complete & With Front Panel.
Grebe Massive Late Model Low Console, Model Unknown.
Hallicrafter SX-100 Communications Receiver.
Kennedy Type 281 SW Receiver.
Mohawk Six, Sloping Front Panel.
Philco Model 45-150 Farm; Philco Model 19; Philco Model 112 Massive Console.
Patterson PR-10 Communications Receiver.
Radiola Model 17 Table; Radiola 17 Massive Console; Radiola 20 Portable;
Radiola Model 26; Radiola Model 80 Table.
Sargent-Rayment Seven, Complete.
Scott "All-Wave 15" With Speaker & Power Supply.
Zenith Model 75 Massive Console, With Phonograph.

(*) = RCA Has No Record Of This Massive Console, With Original Mint Albums.

ALL SETS WITH WORKING TUBES - 01As, 99s, Etc.

Consoles would require crating charges & would be shipped F.O.B.
Large photographs of any unit with detailed spec. sheet available; $2.
Bids accepted until the ___ of September, 1982; no 'phone-calls, please.

SPEAKERS & SPEAKER UNITS:

A-K Type E-3; A-K Type E Housing Only.
Freed-Eisemann Model FE-50.
Jensen Table Model 6V V.C.
Peerless AC Cathedral.
Magnavox "Beverley" E-D.
RCA Model 100; RCA Model 100-A; RCA "Loud-Speaker" Horn.
"Sonocorde", Burgundy Silk Facing, Black Mahogany Frame.
ROLA Pedestal "Re-Creator".
Stewart-Warner P-M (small version of RCA 100-A).
Zenith "Acoustic Adapter".

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RADIO AMERICANA

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WESTERN ELECTRIC NEWS. NOV. 1926. THIS IS A COMPANY MAG. WITH LOTS OF IN-COMPANY NEWS AROUND THE WORLD. 10.00
BETTER HOMES AND GARDENS. JUNE 1928. 2.00
OUTDOOR LIFE. JULY 1938. 2.00
RADIO STARS. SEPT. 1936. ALL ABOUT RADIO PERFORMERS. "BOB HOPE--COMEDY DISCOVERY OF 1936" 8.00
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JAN 1913. NC. WIRELESS CLUB DIRECTORY. WIRELESS LAW. 18.00
FEB 1913. THE LEPEL QUENCHED SPARK SYSTEM.
WIRELESS AND THE AMATEUR. BY H. GERNSBACK.
THE AUDION DETECTOR. BY B.N. BURGLUND.
8 PHOTOS OF EARLY AMATEUR WIRELESS STATIONS. 22.00
APRIL, 1913. NC. A WAVEMETER FOR AMATEURS PLUS "AN ENCLOSED PERIKON DETECTOR". 18.00
RADIO TOPICS. MAY 1924. NICE ARTICLE ON WE 14A AMP. 10.00
ELECTRICAL EXPERIMENTER.
JULY 1918. EXCELLENT ARTICLE ON ARMY SPARK XMTR AND COMPANION CRYSTAL RECEIVER. 18.00
OCT. 1919. NC. FINE ARTICLE BY TESLA ON TELAUTOMATICS.
LATEST AMATUER RADIO RECEIVING APPARATUS. ALSO "AN EFFICIENT RADIO CRYSTAL DETECTOR". 18.00
THE EXPERIMENTER.
AUG. 1925. RADIOTONOSCOPE. 5.00
SEPT. 1925. ONE METER AMATEUR TRANSMITTER. 5.00
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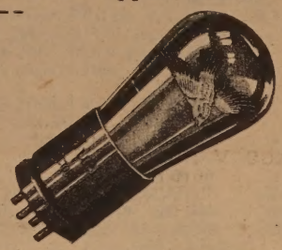

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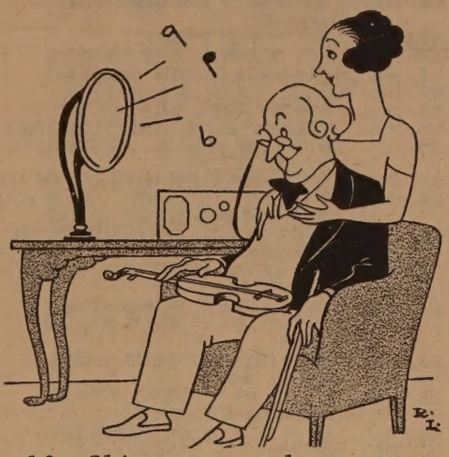

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club news

RADIOFEST 1982 .. A GOOD EXAMPLE OF PRICES AND RADIO COLLECTING AT CLUB ACTIVITIES

Joe Willis, chairman of Radiofest '82 Committee, reported:

"Radiofest '82, held at the Holiday Inn, Elgin Illinois, on August 7, 1982 attracted a crowd of over 200 collectors and enthusiasts from across the country and Canada as well as Milan Italy. Early bird arrivals included; John and Marian Caperton of Louisville Kentucky, Bruce and Charlotte Mager of New York, Bob and Mary Locke of St Cloud, Minnesota and Carlo Longaretti of Milan, Italy.

Saturday dawned warm and humid and by 6:30 a.m. Paul Giganti of San Carlos, California and Clare and Frances Anderson of Weston Canada were anxiously searching out the bargains offered by many of the 75 swap meet trunks that were already open. Gary Schneider had no trouble sellinga United Wireless type D tuner for $1750.00 and Bob Wilkerson had a ready buyer for a Voice From the Sky speaker at $350.00. Other sets sold iuncluded; DeForest Interpanel $900.00, Grebe CR-5 with amplifier $500.00, Federal Junior crystal set $100.00, Magnavox Telemagafone $400.00, Zenith 3R and 4R $185.00 and $195.00, W.E. 14A $350.00, Radak HZ $185.00. Sets also offered for sale included; DeForest D-10, A.K. 9, Kennedy XV and V, Clearfield glass radio, Paragon RA-10 , A.K. 10, Radiola Grand, Radiola V, Pittsburg SP-2, Crosley Pup, Tuska 224 and 228, and 4 grandfather clock radios as well as many AC and cathedral sets and speakers plus boxes and boxes of tubes and parts. Most of the choice pieces were gone by the time the rain came at 4:00 p.m.

Meanwhile, in the show and tell room, Lee Wease and David Zamjahn were telling us some secrets on refinishing radio cabinets and Mike Stosich was speaking on Scott. John Caperton completed the show and tell with an excellent presentation on Leutz (John should know, he acquired a Leutz Silver Ghost at our swap meet).

That night 75 people attended the banquet emceed by Randy Renne. Carlo Longaretti received the prize for coming the longest distance. Other prize winners included David Johnson (one year membership in the participating clubs), Charlotte Mager (sterling silver pen and pencil set) and Rosemary Dittmer (RCA TV, radio, clock combination). A film of the Zenith factory of 1928 was shown to complete the evening entertainment, which was complimented by a display of early Zenith receivers on display in the contest room.

Everybody attending considered Radiofest '82, which was presented by the Antique Radio Club of Illinois, an affiliate of The Antique Radio Club of America, in cooperation with The Indiana Historical Radio Society and The Mid America Antique Radio Club, a success and are looking forward to Radiofest '83. Plans to be announced on or about February 1, 1983. Check your Horn Speaker for details. At this time, I would like to thank everyone who made Radiofest '82 a huge success."

Joe Willis,
chairman, Radiofest
'82 committee

Dr. Ralph Muchow and Dr. Larry Wright graciously opened their museums for tours during Radiofest '82. Many people had a chance to see some very rare equipment.

CONTEST WINNERS - RADIOFEST '82

CLASS I A.C. RECEIVERS
BALDWIN UNIVERSAL PORTABLE
FRANK HEARHCOTE

CLASS II BATTERY SETS
MARCONI PHONE V2A
CARMEN AMBROGGIO

CLASS III CRYSTAL SETS
TELEFUNKEN RECEIVER
JERRY VANICEK

CLASS IV SPEAKERS
BOSCH CONE SPEAKER
BILL DEWITT

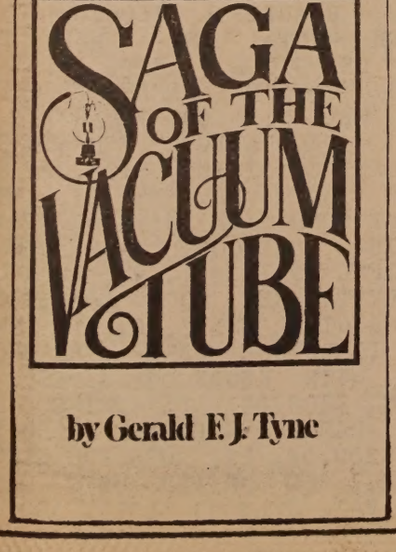
CLASS V HOMEBREW
5 TUBE SET
BARRY JANOV

CLASS VI TUBES
DISPLAY
CHARLEY BARONE

CLASS VII ADVERTISING
CROSLEY DISPLAY
CRAIG BALL

*** BEST OF SHOW ***
MARCONI PHONE V2A
CARMEN AMBROGGIO

Any question write Joe Willis at 525 Oakdale No. 524, Chicago, Illinois 60657



SPECIAL OFFER

For several years Gerald Tyne's *Saga of the Vacuum Tube* was offered to collectors at $19.95 in hardcover and $9.95 in softcover. Now Radio Age has a limited supply (100 ea.) at $9.95 in hardcover and $6.95 in softcover plus $1.25 handling charge. Get yours while supply lasts as offer expires when inventory is sold. No more editions will be printed by the original press. Send check or Money Order to Radio Age, 636 Cambridge Rd., Augusta, Georgia 30909.

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* FOR SALE *

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FOR SALE: CATHEDRAL, BATTERY and AC RADIOS from 1920's and 1930's. Please send self addressed stamped envelope. J. Albert Warren, Box 279, Church St., Waverly, PA 18471.
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FOR SALE. PILOT 3" TV, OLD BATTERY SETS, SPEAKERS, HEADPHONES, OLD RADIO BOOKS AND MAGNAZINES, CRYSTAL SETS, RADIO PARTS AND SEVERAL THOUSAND RADIO TUBES. BILL LAVERTY, 1012 W. GENEVA STREET, EGG HARBOR, NJ 08215.
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SEND LARGE SASE FOR PICTURED LIST OF 20'S AND 30'S RADIOS, TUBES, BOOKS AND PARTS. JERRY FINAMORE, RD # 2, BOX 623, NEW CASTLE, PA 16101 (412) 656-0338.
****
ZENIT 4R RECEIVER. Good cabinet, all knobs. Looks fine. Interior needs restoring $195; RCA "Junior Ribbon" 74B mike. New. $65.00; Shure Broadcast cardoid mike. Very good $50.00; Magnavox R3. Works fine $65.00. All plus UPS. Want IP500/501. Paul C. Crum, 6272 N. Cicero Avenue, Chicago, Illinois 60646.
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EDISON BOOKLET. "THOMAS EDISON PROFESSIONAL INVENTOR" published by the British Science Museum, $6.00 postpaid. Also 110 copies of Edison's 1880 lamp patent. Finest quality 11 x 14 reproductions. All for $29.50 postpaid. Same, Bell's telephone transmitter, $29.50. J. Denny, 2929 North Westmoreland, Arlington, Virginia 22213
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LEFAX HAND BOOK $12.00, W.E. 4A MICROPHONE $85.00, CROSLEY 5-38 (V.R., P. 81) $65.00, FALCK (V.R. P. 130)? W6THU, 1545 RAYMOND, CA 91201
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FOR SALE: 1928 AMERICAN BOSCH "2.8." Cabinet mint. plays. With tubes= $85.00 plus shipping. George Friedrich, 162 Jacqueline Lake, Custer, WI 54423
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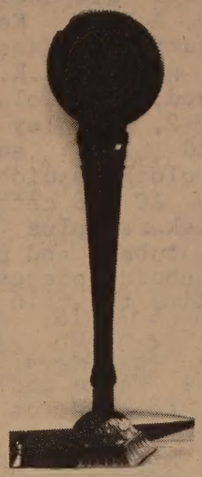

SPEAKER UNIT 41" TALL, CAST ALUMINUM, ORNATE, RARE. EXCELLENT CONDITION. $150.00 OR TRADE FOR AUTOMOTIVE RADIOS AND ASSOCIATED ITEMS. MARVIN ROTH ANTIQUE RADIOS PARTS SERVICE, 14500 LA BELLE, OAK PARK, MI 48237. PHONE (313) 399-5993
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FOR SALE: PERFECT A K - HORN SPEAKER model H $75.00. ron Burtzos, 915 Crane Drive, Apt. no. 703, DeKalb, IL 60115
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RIDER'S MANUAL (early edition) $20.00, Utah wooden speaker $15.00, 100's of tubes 75 cents. SASE for list. Bruce Harbeck, 1316-38th, Sioux City, IA 51104
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ATWATER KENT M92 CATHEDRAL, MINT CABINET, WORKS, $280.00. CLINTON CATHEDRAL, EXCELLENT, WORKS $85.00. RIDERS RADIO VOLS. 1-12, EXCELLENT, $150.00. ALL PLUS U.P.S.; VINNY SHEA, 6 ROCKY RIDGE ROAD, EASTON CT 06612. (203) 261-9662
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BATTERY RADIOS, HORN SPEAKERS, Riders Vol. 1-14, books, etc. Send SASE for list. Bob Lane, 2301 Independence Avenue, Kansas City, MO 64124
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NEW EXPANDED FALL CATALOG AVAILABLE. Catalog 982 contains many new one of a kind items--tubes, radios, books, reprints of early radio catalogs, service manuals and much more. Substantial price reductions on some of our new and used tubes. If you're not on our mailing list, send several first class stamps for this and future catalogs. THE OLD RADIO PLACE, 616 Nelson Street, Rockville, MD 20850
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TUBES FOR SALE - TESTED AND OK - SHIPPED PREPAID. 01A $6.00 each - 24, 26, 27, 45, 80 $5.00 each. What do you need? NO WD-11s. M. L. Young, Rt. 2 Box 481, Hot Springs, AR 71901 Phone (501) 262 1368
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FOR SALE -- TUBES --- 1 BRIGHTSON BLUE IN ORIGINAL FELT LINED BOX- BEAUTIFUL $60.00; 1 ZETKA PROCESS 01A- RARE- WITH COPY OF ORIGINAL AD $55.00; 1 SODION D-21 IN ORIGINAL BOX WITH SPEC. SHEET $40.00; 1 VT-1 BRASS BASE PLATINUM FILAMENT $25.00; 1 QRS RED TOP IN ORIGINAL BOX $35.00; 3 RCA WD-11 PHENOLIC BASE $25.00 EACH; 2 MU-20 DAVEN $20.00 EACH; 1 CLEARTRON CTX-201 HAS BEAUTIFUL LABEL $15.00; 2 DE FOREST AUDION ISOLANTITE CASE $15.00 EACH; 1 MAGNATRON 201A $12.00; 4 UV201A BRASS BASE $15.00 EACH; 1 WD-12 BRASS BASE $35.00; 2 UX-112 BRASS BASE $20.00 EACH; MANY UX201AS, DV'S, UX200 AND UV200 RCA $5.00 EACH; MANY CX201A'S CUNNINGHAM $6.00 EACH. MANY 199S AND 120S $7.00 EACH. HAVE HUNDREDS MORE COLLECTOR TUBES, NO LIST NOW- SEND WANTS. MANY NEW IN BOXES. WILL SELL OR TRADE ENTIRE COLLECTION OF OVER 500 NEW AND USED TUBES. $900.00. NOTE.. ALL TUBES HAVE GOOD FILAMENTS. NO DUDS. TUBES WILL BE SHIPPED UPS AND VERY WELL PACKED, INCLUDE EXTRA FOR SHIPPING, EXCESS WILL BE REFUNDED. RICHARD CANE, 8391 N.W. 21ST., SUNRISE, FL 33322, (305) 741-6838 BETWEEN 7:00 - 10:00 P.M. FOR SALE 1. AMPLION HORN SPEAKER- EXCELLENT CONDITION ALL ORIGINAL $250.00; 2. PATHE GRECIAN NEAR MINT DISC. LARGE HAS DESIGN SIMILAR TO DOCTOR'S INSIGNIA WITH TWISTED SNAKES. ABSOLUTLY MAGNIFICENT LOOKING- WORKS $250.00; 3. MAGNAVOX R3 HORN. EXCELLENT CONDITION $90.00; 4. PEERLESS SPEAKER LARGE GOTHIC FANCY CABINET WITH BUILT IN POWER SUPPLY. BEAUTIFUL $100.00; 5. ATWATER KENT- LAMP- HARD TO FIND. BEAUTIFUL $300.00; 6. AK-225 TOMBSTONE FANCY CABINET, WORKS WELL $165.00; 7. AK-185-A SMALL DECORATIVE TOMBSTONE, EXCELLENT CONDITION $195.00; 8. CHROME SCOTT ALLWAVE 15, EXCELLENT CONDITION WITH ORIGINAL SHIPPING CARTOON, ABSOLUTELY BEAUTIFUL $375.00; 9. AERIOLA JR. CRYSTAL SET, GOOD CONDITION AND ORIGINAL $175.00; 10. MUSETTE TOMBSTONE- RARE- ART DECO STYLE WITH KNOBS ON SIDES, A BEAUTY $200.00; 11. PHILCO 51 CLOCK RADIO, EXCELLENT CONDITION $200.00; 12. WESTERN ELECTRIC 522 CW DRIVER UNIT WITH BASE. PAT. JULY 23, 1918. ADD A

SMALL HORN AND IT WILL MAKE A MINATURE SPEAKER, EXCELLENT CONDITION, WORKS, $35.00; ALL ITEMS SHIPPED UPS. ADD EXTRA FOR SHIPPING AND INSURANCE. EXCESS REFUNDED. ALL SETS WITH TUBES. RICHARD CANE, 8391 N.W. 21ST., SUNRISE, FL 33322 (305) 741-6838 BETWEEN 7:00 AND 10:00 P.M.

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ANTIQUE RADIO TOPICS & THE CLASSIC RADIO NEWSLETTER

LIST NO. 20

NOTE PLEASE ORDER BY CATALOG NUMBERS LISTED HEREIN - EXAMPLES - (B1), (E1), (P010); TUBES BY TYPE NUMBER - 6L6 ETC.

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0A3 $5	1H5 $6	2A5 $10	6A7 $12	6B7 $8	6K5 $7	6SS7 $6	7B6 $7	12AT6 $7	12SQ7 $6	25A7 $7	37 $7	70A7 $7	1203 $6						
0A4 $5	1H6 $6	2A6 $9	6A8 $8	6B8 $8	6K6 $8	6ST7 $6	7B7 $8	12AT7 $4	12SR7 $6	25A6S $6	38 $7	70L7 $8	1231 $6						
0B3 $4	1J5 $6	2A7 $9	6A8 $9	6BA6 $6	6K7 $6	6SU7 $5	7B8 $7	12AU6 $5	12SW7 $5	25B6 $7	39 $6	71A $10	1232 $10						
0C3 $5	1J6 $6	2B7 $7	6AB4 $6	6BE6 $5	6K8 $9	6SV7 $5	7C5 $5	12AU7 $5	12V6 $4	25C6 $7	40 $10	75 $6	1273 $6						
0D3 $5	1L4 $5	2E5 $12	6AB5 $15	6BJ6 $5	6L5 $5	6SZ7 $5	7C6 $6	12AV6 $4	12Z3 $5	25L6 $7	40Z5 $5	76 $6	1274 $6						
0V4 $4	1L6 $10	2W5 $4	6AB7 $7	6C4 $5	6L6 $9	6T7 $8	7C7 $5	12AX7 $4	14A4 $6	25S $6	41 $7	77 $7	1280 $6						
0Z4 $4	1LA4 $7	2X2 $5	6AC5 $5	6C5 $5	6L7 $7	6T8 $6	7E6 $7	12AY7 $6	14A5 $6	25Z5 $7	42 $7	78 $6	1291 $6						
1A3 $5	1LA6 $7	3A4 $6	6AC7 $7	6C6 $5	6N5 $10	6U5 $10	7E7 $7	12B7 $7	14A7 $6	25Z6 $7	43 $9	79 $9	1294 $6						
1A4 $6	1LB4 $8	3A5 $6	6AD5 $7	6C7 $7	6N6 $6	6U8 $6	7F7 $10	12B8 $7	14AF7 $7	26 $9	44 $6	80 $7	1629 $12						
1A5 $5	1LC5 $6	3A8 $7	6AD6 $10	6C8 $7	6N7 $6	6U7 $10	7F8 $10	12BA6 $5	14B5 $6	26A6 $7	45 $14	81 $12	1852 $7						
1A6 $6	1LC6 $6	3B5 $7	6AD7 $7	6CB6 $4	6P5 $5	6V6 $5	7G7 $10	12BE6 $5	14B6 $6	26A7 $7	4523 $5	82 $8	1855 $5						
1A7 $9	1LD5 $7	5B7 $8	6AD8 $8	6P7 $5	6W7 $7	7H7 $7	12C5 $5	14B8 $6	27 $5	45Z5 $7	4525 $7	83 $5	5A81 $9						
1B4 $6	1LE3 $7	3C6 $7	6AE6 $9	6Q6 $8	6Q7 $7	6W6 $8	7J7 $8	12C8 $7	14C5 $5	28D7 $8	46 $6	83V $8	6746 $7						
1B5 $6	1LF3 $7	3LF4 $7	6AE7 $7	6D7 $8	6R7 $5	6X4 $8	7K7 $9	12F5 $6	14C7 $6	30 $6	47 $14	84 $6	9001 $6						
1B7 $6	1LG5 $7	5Q4 $6	6AF5 $7	6D8 $8	6S4 $6	6X5 $14	7L7 $8	12H6 $7	14E6 $7	31 $8	48 $15	85 $6	9002 $6						
1C5 $4	1LH4 $7	5Y3 $6	6AF6 $11	6E5 $18	6S7 $7	6Y6 $8	7N7 $9	12J5 $7	14E7 $6	32 $7	49 $9	89 $7	9003 $6						
1C6 $5	1LN5 $6	5S4 $6	6AG5 $5	6E6 $6	6S8 $9	6Z4 $6	7Q7 $9	12J7 $6	14F7 $8	32L6 $4	50 $15	117L7 $10	9006 $7						
1C7 $5	1N5 $6	5U4 $6	6AG7 $6	6E7 $7	6SA7 $6	6Z5 $7	7R7 $7	12K7 $7	14F8 $9	32L7 $4	50A5 $7	117M7 $10	VR75 $4						
1D5 $7	1N6 $6	5U8 $6	6AH5 $7	6E8 $7	6SB7 $7	6Z7 $7	7S7 $7	12K8 $7	14H7 $8	33 $8	50B5 $5	117N7 $8	VR90 $4						
1D7 $7	1P5 $5	5R4 $6	6AH7 $5	6F5 $7	6SC7 $6	6ZY5 $6	7V7 $7	12L6 $4	14J7 $8	34 $7	50C5 $4	117P7 $9	VR105 $5						
1D8 $7	1Q5 $6	5T4 $6	6AK5 $4	6F6 $7	6SD7 $5	7A4 $7	7W7 $6	12Q7 $6	14N7 $7	35 $9	50C6 $6	117Z3 $7	VR150 $5						
1E4 $8	1R4 $6	5U4 $6	6AL5 $4	6F7 $7	6SE7 $7	7A5 $6	7X6 $7	12SA7 $6	14Q7 $8	35A5 $8	50L6 $6	117Z4 $7	VT-52 $5						
1E5 $6	1R5 $8	5V4 $6	6AL7 $12	6F8 $9	6SF5 $5	7A6 $7	7X7 $5	12SB7 $9	14R7 $8	35B5 $6	50X6 $7	117Z6 $7	FM1000B $5						
1E7 $6	1S4 $4	5W4 $6	6AQ5 $4	6G5 $18	6SF7 $5	7A7 $8	7Y4 $7	12SC7 $7	14W7 $8	35C5 $6	50Y6 $7	485 $9	XX6 $7						
1F4 $5	1S5 $6	5Y4 $6	6AQ7 $5	6G6 $6	6SG7 $5	7A8 $7	7Z4 $7	12SF5 $5	14X7 $8	35L6 $7	50Y7 $7	717A $15	XX9 $7						
1F5 $6	1T4 $6	5Y3 $5	6AT6 $5	6H4 $3	6SH7 $6	7AD7 $8	10 $4	12SF7 $5	15 $12	35W4 $6	51 $9	829 $5	XXL $9						
1F6 $6	1T5 $3	5Y4 $6	6AT8 $4	6H6 $4	6SJ7 $4	7AE7 $6	12 $10	12SQ7 $7	19 $5	35Y4 $7	53 $14	884 $9	XXFH $6						
1F7 $7	1U4 $6	5Z4 $8	6AU6 $4	6J4 $5	6SK7 $4	7AF7 $9	12A5 $7	12SW7 $5	19T8 $5	35Z3 $7	55 $10	950 $8							
1G4 $6	1U5 $4	5Z4 $6	6AV5 $5	6J5 $4	6SL7 $6	7AG7 $8	12A6 $5	12SX7 $6	20 $12	35Z4 $6	56 $5	951 $5							
1G5 $6	1V $11	6A3 $6	6B4 $7	6J6 $5	6SN7 $5	7AH7 $6	12A7 $8	12SK7 $6	22 $6	35Z5 $5	57 $7	955 $6							
1G6 $6	2A3 $12	6A4 $6	6B5 $8	6J7 $5	6SQ7 $5	7B4 $7	12A8 $7	12SL7 $5	24A $6	3526 $5	58 $6	958 $8							

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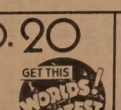

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